



Background

Plastic film thickness is critically important to check as it directly affects product quality, functionality, cost control, regulatory compliance, and customer satisfaction. Maintaining consistent thickness ensures that the film performs its intended function reliably, meets industry standards, and minimizes material waste. Deviations in thickness can lead to defects, higher production costs, and potential legal or quality issues in industries like packaging and medical devices, making precise thickness measurement a fundamental aspect of plastic film manufacturing and quality control.

Application

The FTT-01 Thickness Tester utilizes a mechanical scanning technique to measure the thickness of various materials, including plastic films, sheets, fabrics, textiles, membranes, paper, foil, wafers, and more.

In this process, a sample is positioned on the instrument's base, and a weighted presser foot is gently lowered onto it. The instrument then measures the displacement or the gap between the base and the presser foot, providing an accurate measurement of the specimen's thickness. This method is valuable for quality control and assessment of materials in industries where precise thickness measurements are essential.

Standards

ASTM D374-99: Standard Test Methods for Thickness of Solid Electrical Insulation

ASTM D1777: Standard Test Method for Thickness of Textile Materials

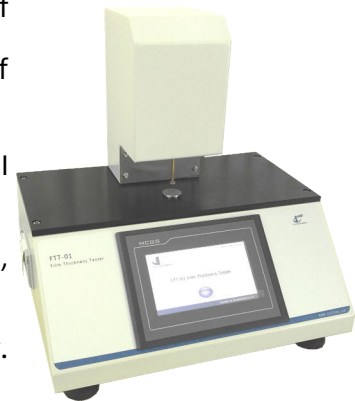
ISO 3034:2011: Corrugated fiberboard-Determination of single sheet thickness

ISO 534-2011:Paper and board-Determination of thickness, density and specific volume

ISO 4593: Plastics; Film and sheeting; Determination of thickness by mechanical scanning

Technical Features

1. Controlled by a PLC and operated through an HMI touch screen.
2. Equipped with automatic presser foot lifting.
3. Provides real-time display of maximum, minimum, average, and standard deviation measurements.
4. Capable of storing test results and micro printing.
5. Offers an RS232 port with software compatibility. (optional)
6. Both manual sample feeding and automatic feeding can be added. (optional)



Standard FTT-01

Main Parameters

Test Range: 0~2mm(Customization available)

Resolution: 0.1 μm

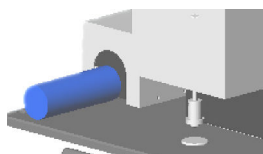
Standard Measure Head: Hemispherical type

Optional Measure Head (flat foot):

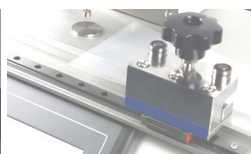
50 mm² , 17.5±1 KPa (for film)

200 mm² , 50±1 KPa (for paper)

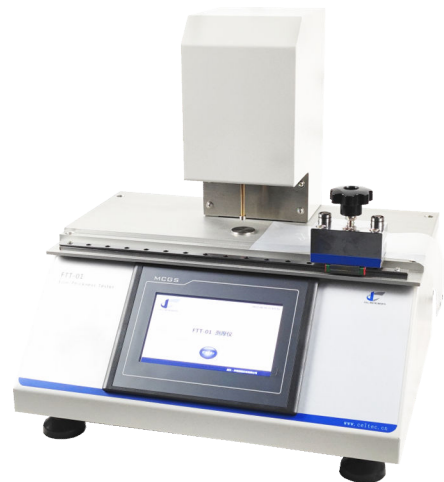
Power: AC 110~220V



Auto Feeding



Manual Feeding



Customized Manual Feeding

The Company reserves the right to update, modify, or amend this Catalog without prior notice.

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